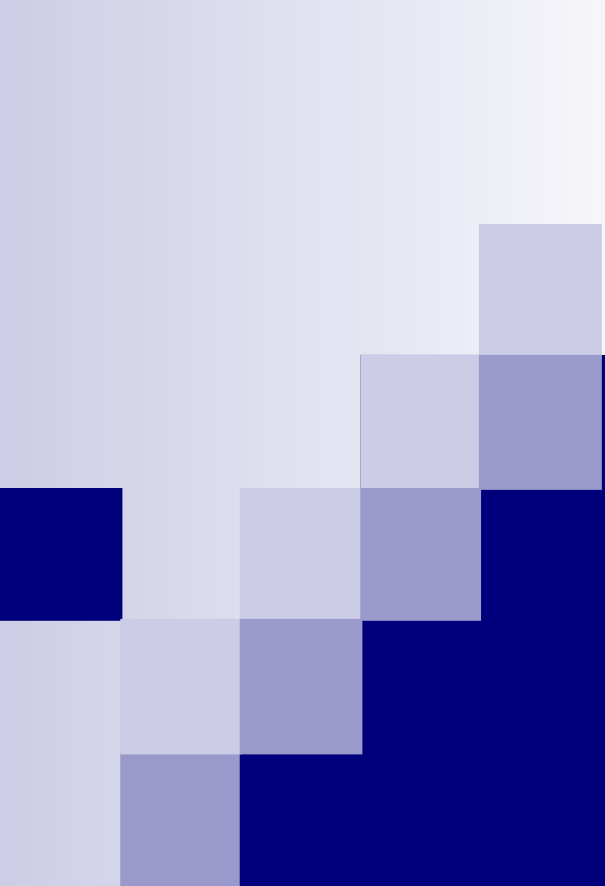




Non-Lethal Weapons - *Academic Initiatives*

LTC Ed Hughes (USA-Ret)
Institute for Non-Lethal Defense
Technologies
Applied Research Laboratory
The Pennsylvania State University

16 December 2004

Penn State Activities

- Research & Development
- Testing & Evaluation
- Education & Training

Common Thread of Training

- Col Alexander: “The issue on deaths [with non-lethals] is training.”
- MSG Godwin: [As we introduce] these systems, they need to be easily trained.”
- Col Karcher: talked about the importance of INIWIC.
- MG Lott asked why Soldiers and Marines would choose a non-lethal option and concluded “training and experience.”
- CAPT Merritt said that operators were the most credible spokespersons for non-lethals and that trained and educated soldiers are a crucial part of the public affairs effort.

Penn State NL Education and Training Activities

- Joint Professional Military Education (Ron Madrid);
- Distributed Training;
- Mobile/Resident Training Support;
- Proposed Training and Education Work.

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The Future of NL Education and Training

- “Training” versus “Education”
- Need to systemically address the NL training challenges (more prolific; sustain standards)
- Need to fill the NL training gap by addressing short term needs with a view to the long term “vision”
- Establish a NLW Master Gunner program
- Ensure COTS systems come with training support packages reviewed by INIWIC for utility
- Services need to invest seriously in INIWIC

